

ABSTRACT OF THE DISCLOSURE

The present invention relates to cartilage extracts and to a method of producing the same. Shark cartilage extracts having anti-angiogenic, anti-tumor, anti-inflammatory and anti-collagenolytic activities have been obtained by an improved process. The process comprises the

5 steps of obtaining a crude cartilage extract in an aqueous solution, this crude extract being fractionated to recover molecules of a molecular weight less than about 500 kDa. Some of the biologically active components of the extract are prepared by further fractionation. The cartilage extract can be used for treating diseases or conditions having etiological components selected from the group consisting of tumor proliferation, angiogenesis, inflammation,

10 metalloprotease activity and collagenolysis. Several cosmetic applications based on the capacity of the liquid extract to improve skin conditions are also disclosed. A simple and efficient process for the preparation of cartilage extracts is also disclosed.